

Please amend claims 65 and 66 by rewriting the same to the following:

--65. (Thrice Amended) A method of recording data on an optical disk having a diameter less than 140 mm and a recording area divided into a lead-in area, a program area and a lead-out area, said method comprising the steps of: providing user information for recording in a plurality of sectors in user tracks; providing table of contents (TOC) information for recording in a plurality of sectors in at least one TOC track, said TOC information including addresses of respective start sectors, each identifying a start sector of a respective user track; encoding both said user information and said TOC information in a long distance error correction code having at least eight parity symbols; modulating the encoded user and TOC information; recording the modulated, encoded TOC information in said at least one TOC track in said lead-in area; and recording the modulated, encoded user information in said user tracks in said program area with a track pitch in the range between 0.646 μm and 1.05 μm.--

--66. (Thrice Amended) Apparatus for recording data on an optical disk having a diameter less than 140 mm and a recording area divided into a lead-in area, a program area and a lead-out area, said apparatus comprising: input means for providing user information for recording in a plurality of sectors in user tracks and table of contents (TOC) information for recording in a plurality of sectors in at least one TOC track, said TOC information including addresses of respective start sectors, each identifying a start sector of a respective user track; encoding means for encoding both said user information and said TOC information in a long distance error correction code having at least eight parity symbols; modulator means for modulating the encoded user and TOC information; and recording means for recording the modulated, encoded TOC information in said at least one TOC track in said lead-in area and for









recording the modulated, encoded user information in said user tracks in said program area with a track pitch in the range between 0.646 μm and 1.05 μm.—

## Please add the following new claims:

--67. (New) A method of recording data on an optical disk having a diameter less than 140 mm and a recording area divided into a lead-in area, a program area and a lead-out area, said method comprising the steps of: providing user information for recording in a plurality of sectors in user track regions; providing control information for recording in a plurality of sectors in at least one control information region; encoding both said user information and said control information in a long distance error correction code having at least eight parity symbols; modulating the encoded user and control information; recording the modulated, encoded control information in said at least one control information region in either said lead-in area or said program area; and recording the modulated, encoded user information in said user track regions in said program area with a track pitch in the range between 0.646 μm and 1.05 μm and with a linear density in the range between 0.237 μm per bit and 0.387 μm per bit.--



eight parity symbols; modular means for modulated, encoded control information in said at least and recording means for recording the modulated, encoded control information in said at least and recording means for recording the modulated, encoded control information in said at least





one control information region in either said lead-in area or said program area and the modulated, encoded user information in said user track regions in said program area with a track pitch in the range between 0.646 μm and 1.05 μm and with a linear density in the range between 0.237 μm per bit and 0.387 μm per bit.—

--69. (New) A method of recording data on an optical disk having a diameter less than 140 mm and a recording area divided into a lead-in area, a program area and a lead-out area, said method comprising the steps of: providing user information for recording in a plurality of sectors in user track regions; providing control information for recording in a plurality of sectors in at least one control information region; encoding both said user information and said control information in a long distance error correction code having at least eight parity symbols; modulating the encoded user and control information; recording the modulated, encoded control information in said at least one control information region in either said lead-in area or said program area; and recording the modulated, encoded user information in said user track regions in said program area with a track pitch in the range between 0.7 μm and 0.9 μm.--



--70. (New) Apparatus for recording data on an optical disk having a diameter less than 140 mm and a recording area divided into a lead-in area, a program area and a lead-out area, said apparatus comprising: input means for providing user information for recording in a plurality of sectors in user track regions and control information for recording in a plurality of sectors in at least one control information region; encoding means for encoding both said user information and said control information in a long distance error correction code having at least eight parity symbols; modular means for modulating the encoded user and control information; and recording means for recording the modulated, encoded control information in said at least one control information region in either said lead-in area or said program area and the





modulated, encoded user information in said user track regions in said program area with a track pitch in the range between  $0.7 \mu m$  and  $0.9 \mu m$ .—

ess than 140 mm and a recording area divided into a lead-in area, a program area and a lead-out area, said method comprising the steps of: providing user information for recording in a plurality of sectors in user track regions; providing control information for recording in a plurality of sectors in at least one control information region; encoding both said user information and said control information in a long distance error correction code having at least eight parity symbols; modulating the encoded user and control information; recording the modulated, encoded control information in said at least one control information region in either said lead-in area or said program area; and recording the modulated, encoded user information in said user track regions in said program area with a track pitch in the range between 0.646 μm and 1.05 μm, wherein said optical disk has a linear velocity in the range of 3.3 m to 5.3 m per second during a playback operation.--



--72. (New) Apparatus for recording data on an optical disk having a diameter less than 140 mm and a recording area divided into a lead-in area, a program area and a lead-out area, said apparatus comprising: input means for providing user information for recording in a plurality of sectors in user track regions and control information for recording in a plurality of sectors in at least one control information region; encoding means for encoding both said user information and said control information in a long distance error correction code having at least eight parity symbols; modular means for modulating the encoded user and control information; and recording means for recording the modulated, encoded control information in said at least one control information region in either said lead-in area or said program area and the